

Trace in layout  
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Patent Number: JP59197323 A 19841108

### (A) MECHANICAL EXPANDING DEVICE

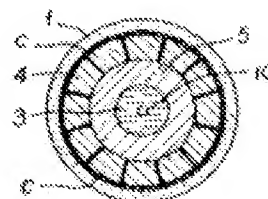
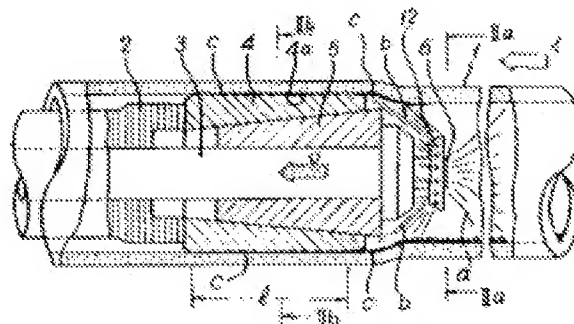
**PURPOSE:** To provide a titled device which decreases uniformly slipping resistance, eliminate bending of a worked pipe and to improve working efficiency in a mechanical expander for a pipe by spraying a lubricating oil to the inside surface of the pipe to be brought into contact with the expander.

**CONSTITUTION:** The lubricating oil introduced through the central hole 10 of a pull rod 3 holding a cone 5 for forcing expanding segments 4 to expand the same is not only sprayed forward from a nozzle 6 but is sprayed in the segment 4 direction as well by nozzles 12. The lubricating oil (b) spreads thoroughly into the gaps between the segments 4 when the segments are contracted to push the pipe thereby flushing away the intruded material, smoothing the movement and expansion of the segments 4, improving the finish on the inside surface of the pipe and preventing the bend of the pipe owing to nonuniform resistance.

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